

Summary of Changes

This publication contains new and updated information as indicated in the following table.

Topic	Page
Added Rockwell Automation Industrial Computers section.	2
Replaced Class I Division with North American in the first sentence of the paragraph.	16
Replaced Type 4X with Type 4 in the enclosure ratings row in Table 15 and added the footnote.	16
Updated catalog numbers in Table 16.	16
Updated information in the Europe and Global rows in Table 16.	16
Updated all certification information in Table 17.	17
Added Rockwell Automation Industrial Monitors section.	23
Added VersaView 5100 monitors column to Table 25.	23
Added VersaView 5100 Industrial Monitors section.	24
Added publication 6200M-UM001 to Additional Resources table.	41

Overview

This document provides technical specifications, environmental specifications, certifications, and dimension drawings for the Allen-Bradley® portfolio of industrial computers and monitors from Rockwell Automation.

Use this document with the Visualization Solutions Selection Guide, publication [VIEW-SG001](#), to make initial decisions on the visualization products that are best suited for your system requirements.

Rockwell Automation Industrial Computers

Rockwell Automation offers a wide range of industrial computers for a wide range of environments.

Industrial environment computers offer solutions for the physical limitations and requirements of your environment. Non-display computers provide a variety of options in form factors, RAM, storage, performance, operating temperatures and optical drives. Integrated display computers are available in different screen sizes, storage options, and performance packages.

Our extreme environment computers combine Hazardous Location certifications with the capacity to withstand more extreme temperatures. Industries such as oil and gas, chemicals, and mining involve potentially explosive materials in locations where hardware often takes a beating. These computers are designed to endure harsh temperature extremes and are IECEx, ATEX, and UL rated for hazardous locations.

[Table 1](#) and [Table 2](#) compare the various industrial computer features to assist in your purchase.

Table 1 - VersaView® 5200 and 5400 Thin Client and Industrial Computers Comparison

Attribute	VersaView 5400 Integrated Display Industrial Computer	VersaView 5400 Non-display Industrial Computer	VersaView 5200 Integrated Display Thin Client	VersaView 5200 Non-display Thin Client
Available display sizes/resolution	<ul style="list-style-type: none"> • 12.1 in./1280 x 800 • 15.6 in./1366 x 768 • 18.5 in./1366 x 768 • 21.5 in./1920 x 1080 	Non-display (NDM)	<ul style="list-style-type: none"> • 12.1 in./1280 x 800 • 15.6 in./1366 x 768 • 18.5 in./1366 x 768 • 21.5 in./1920 x 1080 	Non-display (NDM)
Available touch screens	PCAP multi-touch	—	PCAP multi-touch	—
External video connections	1 x DisplayPort	<ul style="list-style-type: none"> • 1 x DisplayPort • 1 x VGA 	1 x DisplayPort	<ul style="list-style-type: none"> • 1 x DisplayPort • 1 x VGA
Keypad	None	None	None	None
Display bezel	Glass and aluminum	—	Glass and aluminum	—
Package options	Standard			
Available processors	Intel quad-core Atom E3845		Intel single-core Atom E3815	
Primary storage media	128 GB multi-level cell, solid-state drive (MLC SSD)		None	
RAM memory type (GB installed/max)	DDR3 (4)		DDR3 (2)	DDR3 (1)
Expansion slots	None			
Available removable media	Secure digital (SD) card slot	None	SD card slot	None
I/O connectors	9; see page Z.			
Available Windows operating systems	<ul style="list-style-type: none"> • 7 Pro SP1 32 bit/64 bit⁽¹⁾ • WES 7 32 bit/64bit⁽¹⁾ • 10 IoT Enterprise 64 bit 		ThinManager® ready	
CompactFlash quantity	None			
Power	24V DC			
Special requirements	None			
Mount options	<ul style="list-style-type: none"> • Panel (display models) • VESA 	<ul style="list-style-type: none"> • Vertical • DIN rail • VESA • Legacy 6155R • Machine 	<ul style="list-style-type: none"> • Panel (display models) • VESA 	<ul style="list-style-type: none"> • Vertical • DIN rail • VESA • Legacy 6155R • Machine

(1) 32-bit images for these Windows operating systems are available from the Rockwell Automation Product Compatibility and Download Center (PCDC) website at <https://compatibility.rockwellautomation.com/Pages/home.aspx>.

Table 2 - 6181P, 6181X, and 6177R Industrial Computers Comparison

Attribute	6181P Integrated Display Industrial Computer (NDM, 1200P, 1500P, 1700P, and 1900P)	6181X Industrial Computer for Hazardous Locations (1200XT)	6177R Non-display Computer (750R & 1450R)
Available display sizes/resolution	<ul style="list-style-type: none"> Non-display option (NDM) 12.1 in./1024 x 768 15 in.⁽²⁾/1024 x 768 or 1366 x 768 17 in./1280 x 1024 19 in.⁽²⁾/1280 x 1024 or 1366 x 768 	<ul style="list-style-type: none"> NDM 12.1 in./1024 x 768 	Requires external monitor
Available touch screens	Performance: Resistive Advanced: PCAP ⁽²⁾	Resistive, sunlight readable	None
Keypad	None	None	None
Display bezel	Aluminum or stainless steel	Aluminum	None
Package options ⁽¹⁾	Performance or Advanced	Performance	Performance, Advanced, or Server
Available processors	Performance: Intel i3-4102E Advanced: Intel i7-4700EQ	Intel Core i3-5010U	Intel Core i3-2120 or Intel Core i5-2400
Primary storage media • Hard disk drive (HDD) • Solid-state drive (SSD)	32 GB SLC, 2.5-in. SATA or 256 GB MLC, 2.5-in.	128 GB MLC, 2.5-in. ⁽⁵⁾	500 GB, 3.5-in. SATA ⁽⁶⁾
RAM memory type (GB installed/max)	Performance: DDR3 (4/16) Advanced: DDR3 (8/16)	DDR3 (8/16)	DDR3 (4 or 8/32)
Expansion slots	1 half-length PCI Express x8 ⁽³⁾	1 half-length PCIe x1	<ul style="list-style-type: none"> 1 or 4 PCI 1 PCI Express x16 1 PCI Express x4 1 PCI Express x1
Available removable media	<ul style="list-style-type: none"> CompactFlash Performance: None supplied, but can be added via the 6189V-ODD kit Advanced: DVD-RW/CD-RW 	CompactFlash	DVD-RW optical disk drive (ODD)
I/O connectors	Up to 16; see pages 13 and 14 .	9; see page 18 .	9; see page 21 .
Available Windows operating systems	<ul style="list-style-type: none"> 10 IoT Enterprise (64 bit) 7 Professional (64 bit) SP1 Embedded Standard 2009 Embedded Standard 7 (64 bit) SP1 Server 2008 R2 (64 bit) SP1 	<ul style="list-style-type: none"> 10 IoT Enterprise (64 bit) 7 Professional (64 bit) SP1 	<ul style="list-style-type: none"> 10 IoT Enterprise (64 bit) 8.1 Industry Pro (64 bit) 7 Professional (64 bit) SP1 Server 2012 R2 (64 bit) Server 2008 R2 (64 bit) SP1
CompactFlash quantity/type	1/Type II	1/Type II	None
Power	AC or DC	DC	AC
Special requirements	Model dependent: 0...55 °C (32...131 °F) or 0...50 °C (32...122 °F)	<ul style="list-style-type: none"> Rated to 70 °C (158 °F) for c-UL-us hazardous, ATEX, and IECEx locations Preferred monitor: 6186M hazardous location monitor 	0...50 °C (32...122 °F)
Mount options	<ul style="list-style-type: none"> Panel mount (display models) Wall (non-display models) Table⁽⁴⁾ Bookshelf⁽³⁾ Machine⁽³⁾ 	<ul style="list-style-type: none"> Panel mount (display models) Wall (non-display models) 	750R: machine mount 1400R: 4U rack mount

(1) Package option determines processor type, amount of RAM, type of removable media, number of external connectors or I/O, and type of expansion slots.

(2) Some Advanced models are also available in widescreen formats (16:9 aspect ratio), which have projective capacitive (PCAP) touch screens.

(3) Upgradeable to 1 PCI, 2 PCI, 2 PCIe x4, or 1 PCIe x4 + 1 PCI with separate PCI riser kits.

(4) Applies only to series F NDM models. The bookshelf mount requires a bracket (cat. no. 6189V-B00KBRKT), which is sold separately.

(5) Upgradeable to 256 GB MLC SSD (cat. no. 6189X-256GBSSD).

(6) RAID 1 enabled server models ship with two 500 GB HDDs.

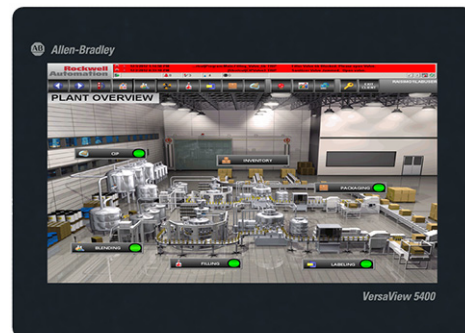
VersaView 5200 Thin Clients and 5400 Industrial Computers

The Allen-Bradley® VersaView 5000 portfolio is a line of industrial computers and thin clients that can be used for standalone machine-level and distributed HMI applications. The open architecture supports modern operating systems and various software applications, including FactoryTalk® View SE software for distributed applications. The line is fanless and lowers maintenance cost to reduce costly machine downtime.

The VersaView 5400 integrated display computers have an edge-to-edge, all glass, ten-point multi-touch screen that can also be operated with gloves. The touch screens are precalibrated so that recalibration is not necessary.

All VersaView non-display computers perform the same as the integrated display computers, in a compact design that supports multiple mounting options.

The VersaView 5200 thin client computers have no operating system and are ideal for distributed applications where multiple computers are maintained by a remote main server that is ThinManager® ready. Integrated display and non-display versions are available.



VersaView Industrial Display and Non-display Computers



VersaView Thin Clients



Table 3 - Environmental Specifications, VersaView 5200 and 5400 Computers

Attribute	5200 Display Thin Clients	5400 Display Industrial Computers	5200 Non-display Thin Clients	5400 Non-display Industrial Computers
Temperature, operating	0...50 °C (32...+122 °F)		-20...+60 °C (-4...+140 °F)	
Temperature, nonoperating	-20...+60 °C (-4...+140 °F)			
Relative humidity	10...90% noncondensing			
Shock, operating	15 G (1/2 sine, 11 ms)			
Shock, nonoperating	30 G (1/2 sine, 11 ms)			
Vibration, operating	0.012 in. p-p, 10...57 Hz, 2 G peak, 57...640 Hz			
Vibration, nonoperating	0.012 in. p-p, 10...57 Hz, 2 G peak, 57...640 Hz			
Altitude, operating	Sea level to 3,000 m (9,842 ft)		Sea level to 2,000 m (6,562 ft)	
Altitude, nonoperating	Sea level to 4,572 m (15,000 ft)		Sea level to 10,000 m (32,810 ft)	
Enclosure ratings	IEC 60529, IP66		IP20	

Table 4 - Power Specifications, VersaView 5200 and 5400 Computers

Customer Loading	Attribute	5200 Thin Client Models					5400 Industrial Computer Models				
		NDM	12.1 in.	15.6 in.	18.5 in.	21.5 in.	NDM	12.1 in.	15.6 in.	18.5 in.	21.5 in.
Typical ⁽¹⁾	Input power, (W) ⁽³⁾	4.5	16.5	15.8	16.2	26	12.8	24.5	23.8	24.2	34
	Heat dissipation, (BTU/hr.)	15.3	56.3	54	55.3	88.7	43.9	83.6	81.2	82.6	126.2
Maximum ⁽²⁾	Input power, (W) ⁽³⁾	4.9	28.7	27.3	27.8	37.4	19.7	36.7	35.3	35.8	45.4
	Heat dissipation, (BTU/hr.)	16.7	98	93.1	94.8	127.6	67.2	125.2	120.4	122.1	155

(1) Typical load is defined as the system is running Passmark Burn-in at 30% load with USB mouse and USB loop-backs, VGA and DisplayPort used, and both Ethernet ports being used.

(2) Maximum load is defined as the system is running Passmark Burn-in at 100% load with USB mouse, USB dummy loads, VGA and DisplayPort used, and both Ethernet ports being used.

(3) Input voltage is 24V DC. Wattage values are measurements, and can differ from maximum ratings required by UL.

Attribute	NDM (non-display)	12.1 in. Display	15.6 in. Display	18.5 in. Display	21.5 in. Display
Input voltage	12...24V DC	24V DC			
Input power, max	4.25...2.125 A SELV	3 A SELV/LPS		3.5 A SELV/LPS	

Table 5 - Certifications, VersaView 5200 and 5400 Computers

For the most current certification information, visit the Rockwell Automation Product Certifications website at <http://www.rockwellautomation.com/global/certification/overview.page?>

Certification	All VersaView Models																																																																					
c-UL-us	See Rockwell Automation Product Certifications website.																																																																					
CE																																																																						
EAC																																																																						
FCC	Class A emissions																																																																					
Korea	Korean Registration of Broadcasting and Communications Equipment, compliant with Article 58-2 of Radio Waves Act, Clause 3. For more details, see 6200-CT001 .																																																																					
RCM (formerly C-Tick)	See Rockwell Automation Product Certifications website.																																																																					
RoHS	<p>European RoHS 2014/30/EU. For more details, see 6200-CT002.</p> <p>China RoHS:</p> <table border="1"> <thead> <tr> <th rowspan="2">部件名称 Part Name</th> <th colspan="6">有毒有害物质或元素 Toxic or Hazardous Substances and Elements</th> </tr> <tr> <th>铅 Lead (Pb)</th> <th>汞 Mercury (Hg)</th> <th>镉 Cadmium (Cd)</th> <th>六价铬 Hexavalent Chromium (Cr(VI))</th> <th>多溴联苯 Polybrominated Biphenyls (PBB)</th> <th>多溴二苯醚 Polybrominated Diphenyl Ethers (PBDE)</th> </tr> </thead> <tbody> <tr> <td>壳体 Housing</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>显示 Display</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>印刷电路板 Printed Circuit Board</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>金属螺帽 Metal Fasteners</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>电缆组装 Cable Assembly</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>风扇组装 Fan Assembly</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>电力供应组装 Power Supply Assemblies</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>电池 Battery</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>本表格依据SJ/T11364 的规定编制。 This table is made per guidance of SJ/T 11364.</p> <p>0: 表示该有害物质在该部件所有均质材料中的含量均在GB/T26572 规定的限量要求以下。 0: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for the part is below the limit requirement in GB/T 26572.</p> <p>X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T26572 规定的限量要求。 求。(企业可在此处, 根据实际情况对上表中打“×”的技术原因进行进一步说明。) X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials for the part is below the limit requirement in GB/T 26572.</p> <p>Turkey RoHS (EEE Yönetmeliğine Uygundur. In Conformity with the EEE Regulation)</p>	部件名称 Part Name	有毒有害物质或元素 Toxic or Hazardous Substances and Elements						铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr(VI))	多溴联苯 Polybrominated Biphenyls (PBB)	多溴二苯醚 Polybrominated Diphenyl Ethers (PBDE)	壳体 Housing	X	0	0	0	0	0	显示 Display	X	0	0	0	0	0	印刷电路板 Printed Circuit Board	X	0	0	0	0	0	金属螺帽 Metal Fasteners	X	0	0	0	0	0	电缆组装 Cable Assembly	X	0	0	0	0	0	风扇组装 Fan Assembly	X	0	0	0	0	0	电力供应组装 Power Supply Assemblies	X	0	0	0	0	0	电池 Battery	0	0	0	0	0	0
部件名称 Part Name	有毒有害物质或元素 Toxic or Hazardous Substances and Elements																																																																					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr(VI))	多溴联苯 Polybrominated Biphenyls (PBB)	多溴二苯醚 Polybrominated Diphenyl Ethers (PBDE)																																																																
壳体 Housing	X	0	0	0	0	0																																																																
显示 Display	X	0	0	0	0	0																																																																
印刷电路板 Printed Circuit Board	X	0	0	0	0	0																																																																
金属螺帽 Metal Fasteners	X	0	0	0	0	0																																																																
电缆组装 Cable Assembly	X	0	0	0	0	0																																																																
风扇组装 Fan Assembly	X	0	0	0	0	0																																																																
电力供应组装 Power Supply Assemblies	X	0	0	0	0	0																																																																
电池 Battery	0	0	0	0	0	0																																																																

Table 6 - Technical Specifications, VersaView 5200 and 5400 Computers

Attribute	5200 Thin Client Models					5400 Industrial Computer Models				
	NDM	12.1 in. Display	15.6 in. Display	18.5 in. Display	21.5 in. Display	NDM	12.1 in. Display	15.6 in. Display	18.5 in. Display	21.5 in. Display
Display type	—	Color active-matrix TFT flat panel				—	Color active-matrix TFT flat panel			
Display size, diagonal		12.1 in. (307 mm)	15.6 in. (396 mm)	18.5 in. (470 mm)	21.5 in. (546 mm)		12.1 in. (307 mm)	15.6 in. (396 mm)	18.5 in. (470 mm)	21.5 in. (546 mm)
Display aspect ratio		16:9					16:9			
Display resolution, max		1280 x 800	1366 x 768	1366 x 768	1920 x 1080		1280 x 800	1366 x 768	1366 x 768	1920 x 1080
Response time, ms		10	8	5	25		10	8	5	25
Touch screen		PCAP multi-touch					PCAP multi-touch			
Bezel		Edge-to-edge glass with aluminum ring					Edge-to-edge glass with aluminum ring			
Available processors	Intel single-core Atom E3815, 1.46 GHz					Intel quad-core Atom E3845, 1.91 GHz				
RAM • Type • Supplied/max (GB)	DDR3 ⁽¹⁾ 1/1	DDR3, SO-DIMM 2/2				DDR3, SO-DIMM 4/4				
Available storage drives	None					1 x 128 GB, 2.5 in. SATA MLC SSD				
Expansion slots	None									
Available optical storage device	None									
CompactFlash type	None									
SD slot	None	1 full-size SDHC				1 full-size SDHC				
I/O connections	<ul style="list-style-type: none"> • 1 x USB 3.0 Type A port • 2 x USB 2.0 Type A ports • 1 x RS-232, DB9 port 		<ul style="list-style-type: none"> • 1 x RS-232, DB9 port • 2 x Ethernet RJ45 LAN ports, 1 Gb each 							
External video connections/ max resolution	<ul style="list-style-type: none"> • 1 x DisplayPort/2560 x 1600 • 1 x VGA/1920 x 1440 	1 x DisplayPort/2560 x 1600				<ul style="list-style-type: none"> • 1 x DisplayPort/2560 x 1600 • 1 x VGA/1920 x 1440 	1 x DisplayPort/2560 x 1600			
Available operating systems	ThinManager ready					<ul style="list-style-type: none"> • Windows 10 IoT Enterprise (64 bit)⁽²⁾ • Windows 7 Pro (64 bit) SP1⁽²⁾ • WES 7 (64 bit) 				
Weight, approx	1.78 kg (3.93 lbs)	5.0 kg (11.02 lbs)	5.9 kg (13 lbs)	8.3 kg (18.29 lbs)	9.5 kg (20.94 lbs)	1.78 kg (3.93 lbs)	5.0 kg (11.02 lbs)	5.9 kg (13 lbs)	8.3 kg (18.29 lbs)	9.5 kg (20.94 lbs)
Dimensions, approx	See Table 7 on page 8	See Table 8 on page 9				See Table 7 on page 8	See Table 8 on page 9			
Cutout dimensions	—	250 x 312 mm (9.84 x 12.28 in.)	282 x 398 mm (11.1 x 15.67 in.)	321 x 464 mm (12.64 x 18.27 in.)	357 x 529 mm (14.06 x 20.83 in.)	—	250 x 312 mm (9.84 x 12.28 in.)	282 x 398 mm (11.1 x 15.67 in.)	321 x 464 mm (12.64 x 18.27 in.)	357 x 529 mm (14.06 x 20.83 in.)
Mounting options	<ul style="list-style-type: none"> • Bookshelf⁽³⁾ • DIN rail⁽⁴⁾ • VESA⁽⁴⁾ • Legacy⁽⁴⁾ • Machine⁽⁴⁾ 	<ul style="list-style-type: none"> • Panel (IP65) • VESA (IP20) 				<ul style="list-style-type: none"> • Bookshelf⁽³⁾ • DIN rail⁽⁴⁾ • VESA⁽⁴⁾ • Legacy⁽⁴⁾ • Machine⁽⁴⁾ 	<ul style="list-style-type: none"> • Panel (IP65) • VESA (IP20) 			

(1) Soldered.

(2) 32 bit images for these Windows operating systems are available from the Rockwell Automation Product Compatibility and Download Center (PCDC) website at <https://compatibility.rockwellautomation.com/Pages/home.aspx>.

(3) Computer is shipped with this mounting bracket installed.

(4) An optional mounting bracket must be ordered for this mounting method.

Figure 1 - VersaView 5200 and 5400 Non-display Computer Dimensions

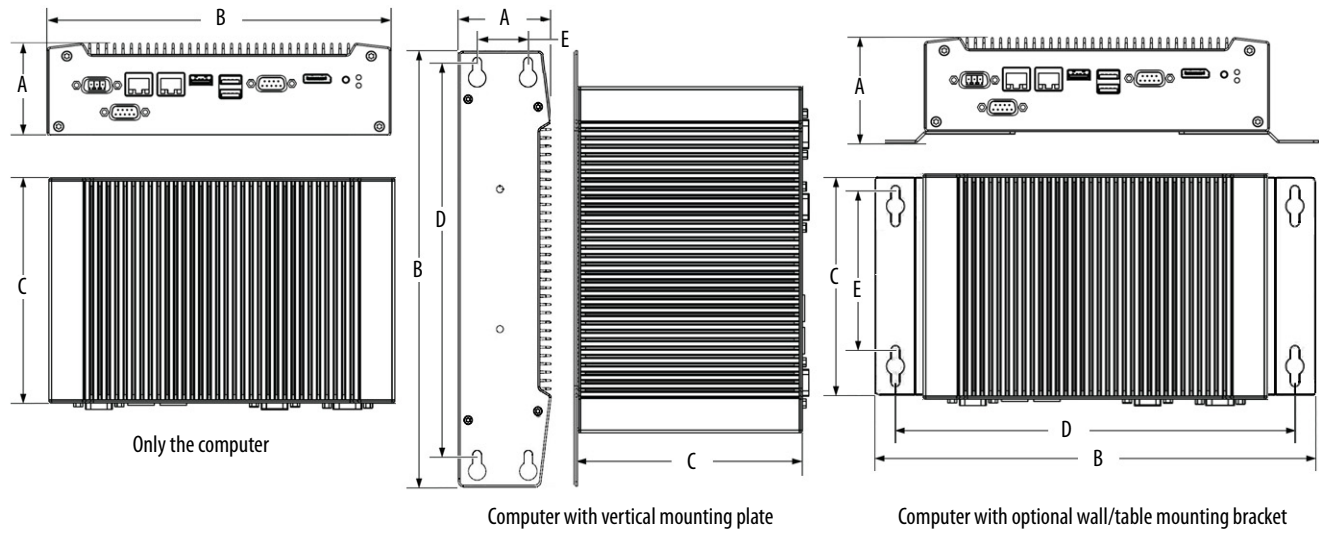


Table 7 - Dimensions, VersaView 5200 and 5400 Non-display Computers

Computer Models	Configuration	Dimensions, mm (in.)				
		A	B	C	D	E
5200 Thin Client and 5400 Industrial Non-display	Only the computer	58 (2.28)	210 (8.27)	140 (5.51)	—	—
	Computer with vertical mounting plate	58 (2.28)	266 (10.47)	138 (5.43)	240 (9.45)	32 (1.26)
	Computer with optional wall/table mounting bracket	65 (2.56)	270 (10.63)	135.5 (5.33)	245 (9.65)	100 (3.94)
5200 Thin Client Compact Non-display (not shown)	Only the computer	58 (2.28)	150 (5.9)	99.5 (3.92)	—	—
	Computer with vertical mounting plate	58 (2.28)	192 (7.56)	99.5 (3.92)	180 (7.1)	32 (1.26)

Figure 2 - VersaView 5200 and 5400 Integrated Display Computer Dimensions

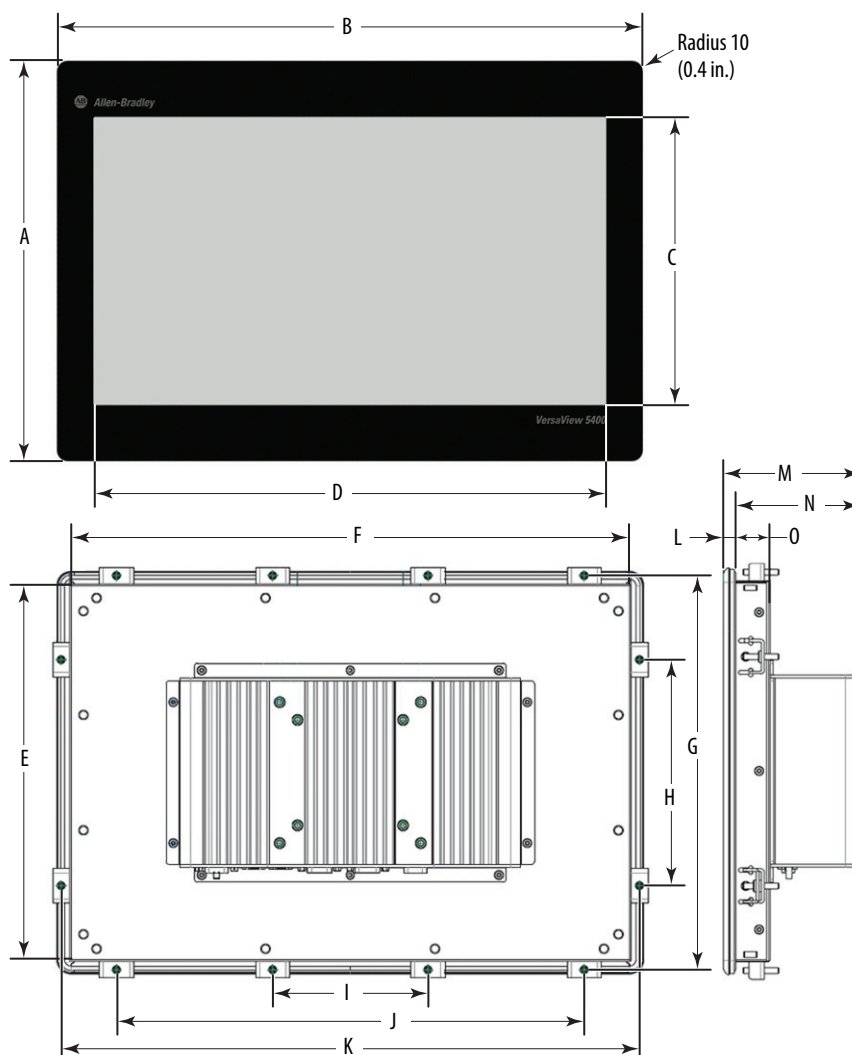


Table 8 - Dimensions, VersaView 5200 and 5400 Integrated Display Computers

Display Size (in.)	Dimensions, mm (in.)														
	A	B	C	D	E	F	G	H	I	J	K	L ⁽¹⁾	M ⁽²⁾	N	O
12.1	266 (10.47)	328 (12.91)	163.2 (6.43)	261 (10.28)	248 (9.76)	310 (12.2)	260 (10.24)	125 (4.92)	200 (7.87)	—	322.5 (12.7)	7.6 (0.3)	97.1 (3.82)	89.5 (3.52)	24.5 (0.97)
15.6	298 (11.73)	414 (16.3)	193.5 (7.61)	344.2 (13.55)	280 (11)	396 (15.6)	292 (11.5)	160 (6.3)	110 (4.33)	330 (13)	408 (16)				
18.5	337 (13.27)	480 (18.9)	230 (9.07)	410 (16.13)	319 (12.56)	462 (18.19)	331 (13.03)	250 (9.84)	130 (5.12)	390 (15.35)	474 (18.66)				
21.5	373 (14.68)	545 (21.46)	268 (10.55)	476.6 (18.76)	355 (14)	527 (20.75)	367 (14.45)	250 (9.84)	150 (5.91)	450 (17.71)	539 (21.22)				

(1) Metric dimension is ± 0.5 , and the English dimension is ± 0.02 .

(2) Metric dimension is ± 1.0 , and the English dimension is ± 0.04 .

6181P Integrated Display and Non-display Computers

6181P integrated display and non-display industrial computers serve as the foundation for visualization control with a variety of display sizes, models, and mounting methods. Display sizes are offered in both standard (4:3 and 5:4) format and widescreen (16:9) format. All 6181P computer models feature solid-state drives for performance in storage reliability. Various mounting methods are possible with these computers in landscape and portrait orientations, as well as a space-saving ‘bookshelf’ mounting option on non-display versions.

The complete Rockwell Automation advantage includes seamless integration with the full suite of Rockwell Software® solutions, including Integrated Architecture® and FactoryTalk® View software.



6181P Display Model



6181P Non-display Model

Table 9 - Environmental Specifications, 6181P Integrated Display and Non-display Computers

Attribute	Advanced	Performance
Temperature, operating		
• NDM (non-display)		0...55 °C (32...131 °F)
• 1200		0...55 °C (32...131 °F)
• 1500	0...55 °C (32...131 °F) 0...50 °C (32...122 °F) ⁽³⁾	0...55 °C (32...131 °F)
• 1700	0...55 °C (32...131 °F)	0...55 °C (32...131 °F)
• 1900	0...50 °C (32...122 °F)	0...50 °C (32...122 °F)
Temperature, nonoperating	-20...+60 °C (-4...+140 °F)	
Relative humidity	10...90% noncondensing at 50%	
Shock, operating ⁽¹⁾⁽²⁾	15 G (1/2 sine, 11 ms)	
Shock, nonoperating ⁽¹⁾⁽²⁾	30 G (1/2 sine, 11 ms)	
Vibration, operating ⁽¹⁾⁽²⁾	0.012 in. p-p, 10...57 Hz, 2 G peak, 57...640 Hz	
Vibration, nonoperating ⁽¹⁾⁽²⁾	0.018 in. p-p, 10...57 Hz, 3G peak (57...640 Hz)	
Altitude, operating	Sea level to 2,000 m (6,562 ft)	
Altitude, nonoperating	Sea level to 12,192 m (40,000 ft)	
Enclosure ratings		
• With aluminum bezels	UL50 Type 1, 12, and 4 (indoor use only); IEC 60529, IP66	• UL50 Type 1, 12, and 4 (indoor use only); IEC 60529, IP66
• With stainless steel bezels		• UL50 Type 1, 12, 4, and 4X (indoor use only); IEC 60529, IP66

(1) The optical disk drive is considered a maintenance device. Do not operate the drive in environments with the shock and vibration levels listed. Do not operate the drive in temperatures above 45 °C (113 °F).

(2) Does not apply to bookshelf-mounted non-display computers.

(3) This temperature range applies only to widescreen models.

Table 10 - Power Specifications, 6181P Integrated Display and Non-display Computers

Customer Loading	Attribute	All 6181P Performance Models					All 6181P Advanced Models					
		NDM	12 in.	15 in.	17 in.	19 in.	NDM	15 in. widescreen	15 in.	17 in.	19 in. widescreen	19 in.
Typical	Input power, (W)	29	35	36	48	56	40	48	47	58	52	66
	Heat dissipation, (BTU/hr.)	98	119	123	164	191	136	164	160	198	177	225
Maximum	Input power, (W)	113	120	122	136	144	140	148	147	158	151	167
	Heat dissipation, (BTU/hr.)	386	409	416	464	491	478	505	502	539	515	570

Attribute	All 6181P Models
AC models	
Input voltage	100...240V, autoranging
Input power	100...240V; 1.8...0.75 A 50/60 Hz; 180VA
DC models	
Input voltage	18...32V
Input power	18...32V; 10.0...5.63 A; 180 W SELV
Ratings, max	
USB 3.0 port	900 mA ⁽¹⁾
PCIe slot	12 W internal, 28 W external (40 W total)

(1) Per port. Maximum of two ports loaded at 900 mA and all other ports at 500 mA.

Table 11 - Certifications, 6181P Integrated Display and Non-display Computers

For the most current information, visit the Rockwell Automation Product Certifications website at <http://www.rockwellautomation.com/global/certification/overview.page?>

Certification ⁽¹⁾	Advanced and Performance Models																																																																					
c-UL-us	UL/c-UL Listed per UL 60950-1 and CSA C22.2 60950-1-07. For more details, see 6181P-CT007 .																																																																					
CE	EMC 2004/108/EC and 2014/30/EU. For more details, see 6181P-CT006 . EN 60950-1 EU REACH: Regulation No. 1907/2006 of the European Parliament ⁽²⁾ Waste Electrical and Electronic Equipment (WEEE) 2002/96/EC Metric Directive 80/181/EC EU Battery Directive 2006/66/EC Low Voltage Directive: LVD 2006/95/EC																																																																					
EAC (TR CU)	Low Voltage TR CU 004/2011 EMC TR CU 020/2011																																																																					
FCC	Class A emissions																																																																					
Korea	Korean Registration of Broadcasting and Communications Equipment, compliant with Article 58-2 of Radio Waves Act, Clause 2. Emissions standards: Class A 이 기기는 업무용 (A 급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의 하시기 바라며, 가정 외의 지역에서 사용하는 것을 목적으로 합니다.																																																																					
RCM (formerly C-Tick)	Australian Radiocommunications Act 1992. For more details, see 6181P-CT005 . Emission standards: AS/NZS 3548 (CISPR 22 EN55022)																																																																					
RoHS	<p>European RoHS 2011/65/EU China RoHS:</p> <table border="1"> <thead> <tr> <th rowspan="2">部件名称 Part Name</th> <th colspan="6">有毒有害物质或元素 Toxic or Hazardous Substances and Elements</th> </tr> <tr> <th>铅 Lead (Pb)</th> <th>汞 Mercury (Hg)</th> <th>镉 Cadmium (Cd)</th> <th>六价铬 Hexavalent Chromium (Cr(VI))</th> <th>多溴联苯 Polybrominated Biphenyls (PBB)</th> <th>多溴二苯醚 Polybrominated Diphenyl Ethers (PBDE)</th> </tr> </thead> <tbody> <tr> <td>壳体 Housing</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>显示 Display</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>印刷电路板 Printed Circuit Board</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>金属螺帽 Metal Fasteners</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>电缆组装 Cable Assembly</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>风扇组装 Fan Assembly</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>电力供应组装 Power Supply Assemblies</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>电池 Battery</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>本表格依据SJ/T11364 的规定编制。 This table is made per guidance of SJ/T 11364.</p> <p>0: 表示该有害物质在该部件所有均质材料中的含量均在GB/T26572 规定的限量要求以下。 0: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for the part is below the limit requirement in GB/T 26572.</p> <p>X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T26572 规定的限量要求。 求。(企业可在此处, 根据实际情况对上表中打“X”的技术原因进行进一步说明。) X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials for the part is below the limit requirement in GB/T 26572.</p> <p>Turkey RoHS (EEE Yönetmeliğine Uygundur. In Conformity with the EEE Regulation)</p>	部件名称 Part Name	有毒有害物质或元素 Toxic or Hazardous Substances and Elements						铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr(VI))	多溴联苯 Polybrominated Biphenyls (PBB)	多溴二苯醚 Polybrominated Diphenyl Ethers (PBDE)	壳体 Housing	X	0	0	0	0	0	显示 Display	X	0	0	0	0	0	印刷电路板 Printed Circuit Board	X	0	0	0	0	0	金属螺帽 Metal Fasteners	X	0	0	0	0	0	电缆组装 Cable Assembly	X	0	0	0	0	0	风扇组装 Fan Assembly	X	0	0	0	0	0	电力供应组装 Power Supply Assemblies	X	0	0	0	0	0	电池 Battery	0	0	0	0	0	0
部件名称 Part Name	有毒有害物质或元素 Toxic or Hazardous Substances and Elements																																																																					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr(VI))	多溴联苯 Polybrominated Biphenyls (PBB)	多溴二苯醚 Polybrominated Diphenyl Ethers (PBDE)																																																																
壳体 Housing	X	0	0	0	0	0																																																																
显示 Display	X	0	0	0	0	0																																																																
印刷电路板 Printed Circuit Board	X	0	0	0	0	0																																																																
金属螺帽 Metal Fasteners	X	0	0	0	0	0																																																																
电缆组装 Cable Assembly	X	0	0	0	0	0																																																																
风扇组装 Fan Assembly	X	0	0	0	0	0																																																																
电力供应组装 Power Supply Assemblies	X	0	0	0	0	0																																																																
电池 Battery	0	0	0	0	0	0																																																																

(1) When marked; see <http://www.rockwellautomation.com/certification> for declarations of conformity, certificates, and other certification details.
(2) For current product-environmental information, see <http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page>.

Table 12 - Technical Specifications - 6181P Integrated Display and Non-display Computer NDM, 1200P, and 1500P Models

Attribute	NDM (non-display)	1200P		1500P	
		Performance		Performance	Advanced
Display type	—	Color active-matrix TFT flat panel			
Display size, diagonal	—	12 in. (307 mm)	15 in. (381 mm)	<ul style="list-style-type: none"> 15 in. (381 mm) 15.6 in. (396 mm) 	
Display aspect ratio	—	4:3		<ul style="list-style-type: none"> 4:3 16:9 	
Display resolution (max)	—	XGA 1024 x 768		<ul style="list-style-type: none"> XGA 1024 x 768 WXGA 1366 x 768 	
Touch screen	—	Resistive antiglare		PCAP	
Response time	—	15 ms			
Bezel	—	Aluminum	<ul style="list-style-type: none"> Aluminum Stainless steel 		Aluminum
Available processors	<ul style="list-style-type: none"> Intel i3-4102E; 2 cores; 1.6 GHz Intel i7-4700EQ; 4 cores; 2.4 GHz 	Intel i3-4102E; 2 cores; 1.6 GHz		Intel i7-4700EQ; 4 cores; 2.4 GHz	
RAM	<ul style="list-style-type: none"> Type Supplied Maximum 	<ul style="list-style-type: none"> DDR3-1600 204-pin SO-DIMM 4 GB (2 x 2 GB) or 8 GB (2 x 4 GB) 16 GB (2 x 8 GB)⁽¹⁾ 		<ul style="list-style-type: none"> DDR3-1600 204-pin SO-DIMM 4 GB (2 x 2 GB) 16 GB (2 x 8 GB)⁽¹⁾ 	
Available storage drives	<ul style="list-style-type: none"> 1 x 256 GB, 2.5-in. SATA MLC SSD 2 x 256 GB, 2.5-in. SATA MLC SSD (RAID 1) 1 x 32 GB, 2.5-in. SATA SLC SSD 1 x 64 GB, 2.5-in. SATA SLC SSD⁽²⁾ 	<ul style="list-style-type: none"> 1 x 256 GB, 2.5-in. SATA MLC SSD 1 x 32 GB, 2.5-in. SATA SLC SSD 1 x 64 GB, 2.5-in. SATA SLC SSD⁽²⁾ 			
Expansion slots	1 PCI Express x8 ⁽³⁾				
Available optical storage drive (ODD)	<ul style="list-style-type: none"> None supplied⁽⁴⁾ 1 DVD-RW/CD-RW 	None supplied ⁽⁴⁾		1 DVD-RW/CD-RW	
CompactFlash Type II	Type II slot with cover				
I/O connections	<ul style="list-style-type: none"> 1 PS/2 keyboard port 1 PS/2 mouse port 2 serial RS-232 COM ports 	<ul style="list-style-type: none"> 4 or 5 USB 3.0 external ports⁽⁵⁾ 2 Ethernet LAN ports, 1 Gb each DVI-I port 		<ul style="list-style-type: none"> DisplayPort 3 jacks: audio line-in, audio line-out, and microphone-in 	
Available operating systems ⁽⁶⁾⁽⁷⁾	<ul style="list-style-type: none"> Windows 10 IoT Enterprise (64 bit) Windows 7 Pro (64 bit) SP1 WES 7 (64 bit) SP1 Windows Server 2008 R2 Standard (64 bit) SP1 	<ul style="list-style-type: none"> Windows 10 IoT Enterprise (64 bit) Windows 7 Professional (64 bit) SP1 WES 7 (64 bit) SP1 		<ul style="list-style-type: none"> Windows 10 IoT Enterprise (64 bit) Windows 7 Professional (64 bit) SP1 	
Weight, approx	7.5 kg (16.5 lb)	8.5 kg (18.7 lb)	9.9 kg (21.8 lb)	9.9 kg (21.8 lb)	
<ul style="list-style-type: none"> Aluminum bezel Stainless steel bezel Widescreen 	—	—	11.1 kg (24.5 lb)	—	
Dimensions	See Table 14 on page 15				
Cutout dimensions					
Mount options	<ul style="list-style-type: none"> Wall Bookshelf⁽⁸⁾ Table top 	Panel			

(1) Maximum memory shipped with computers is 8 GB. 16 GB is available through a kit (catalog number 6189V-16GSODDR3), which is sold separately.
(2) Available through a kit (catalog number 6189V-6181SSD64GB), which is sold separately.
(3) Available one-slot riser kit (catalog number 6189V-PCIR) supports 1 PCI, and two-slot kit (catalog number 6189V-EXTPCI2) supports 2 PCI, 2 PCIe x4, or 1 PCIe x4 plus 1 PCI, all which are half-length.
(4) Performance models are not sold with an optical disk drive (ODD) but one can be installed. You must order a kit (catalog number 6189V-ODD), which is sold separately.
(5) All display models have four external USB 3.0 ports and one internal USB 3.0 port. Display models with an aluminum bezel have an extra external USB 3.0 port on the bezel (behind the front access cover).
(6) 6181P computers do not ship with the Windows XP Professional operating system but Windows XP system images are available. For more information, contact Rockwell Automation Technical Support (see back page).
(7) 32 bit images for the Windows 7 operating system are available from the Rockwell Automation Product Compatibility and Download Center: <https://compatibility.rockwellautomation.com/Pages/home.aspx>.
(8) A bookshelf mounting kit (catalog number 6189V-BOOKBRKT) is required and must be ordered separately.

Table 13 - Technical Specifications - 6181P Integrated Display Computer 1700P and 1900P Models

Attribute	1700P		1900P	
	Performance	Advanced	Performance	Advanced
Display type	Color active-matrix TFT flat panel			
Display size, diagonal	17 in. (432 mm)		19 in. (483 mm)	<ul style="list-style-type: none"> 19 in. (483 mm) 18.5 in. (470 mm)
Display aspect ratio	5:4			<ul style="list-style-type: none"> 5:4 16:9
Display resolution (max)	SXGA 1280 x 1024			<ul style="list-style-type: none"> SXGA 1280 x 1024 WXGA 1366 x 768
Touch screen	Resistive antiglare	PCAP	Resistive antiglare	PCAP
Response time	15 ms			
Bezel	<ul style="list-style-type: none"> Aluminum Stainless steel 	Aluminum	<ul style="list-style-type: none"> Aluminum Stainless steel 	Aluminum
Available processors	Intel i3-4102E; 2 cores; 1.6 GHz	Intel i7-4700EQ; 4 cores; 2.4 GHz	Intel i3-4102E; 2 cores; 1.6 GHz	Intel i7-4700EQ; 4 cores; 2.4 GHz
RAM <ul style="list-style-type: none"> Type Supplied Maximum 	<ul style="list-style-type: none"> DDR3-1600 204-pin SO-DIMM 4 GB (2 x 2 GB) 16 GB (2 x 8 GB)⁽¹⁾ 	<ul style="list-style-type: none"> DDR3-1600 204-pin SO-DIMM 8 GB (2 x 4 GB) 16 GB (2 x 8 GB)⁽¹⁾ 	<ul style="list-style-type: none"> DDR3-1600 204-pin SO-DIMM 4 GB (2 x 2 GB) 16 GB (2 x 8 GB)⁽¹⁾ 	<ul style="list-style-type: none"> DDR3-1600 204-pin SO-DIMM 8 GB (2 x 4 GB) 16 GB (2 x 8 GB)⁽¹⁾
Available storage drives	<ul style="list-style-type: none"> 1 x 256 GB, 2.5-in. SATA MLC SSD 1 x 32 GB, 2.5-in. SATA SLC SSD 1 x 64 GB, 2.5-in. SATA SLC SSD⁽²⁾ 			
Expansion slots	1 PCI Express x8 ⁽³⁾			
Available optical storage drive (ODD)	None supplied ⁽⁴⁾	1 DVD-RW/CD-RW	None supplied ⁽⁴⁾	1 DVD-RW/CD-RW
CompactFlash Type II	Type II slot with cover			
I/O connections	<ul style="list-style-type: none"> 1 PS/2 keyboard port 1 PS/2 mouse port 2 serial RS-232 COM ports 	<ul style="list-style-type: none"> 4 or 5 USB 3.0 external ports⁽⁵⁾ 2 Ethernet LAN ports, 1 Gb each DVI-I port 	<ul style="list-style-type: none"> DisplayPort 3 jacks: audio line-in, audio line-out, and microphone-in 	
Available operating systems ⁽⁶⁾⁽⁷⁾	<ul style="list-style-type: none"> Windows 10 IoT Enterprise (64 bit) Windows 7 Professional (64 bit) SP1 WES 7 (64 bit) SP1 	<ul style="list-style-type: none"> Windows 10 IoT Enterprise (64 bit) Windows 7 Professional (64 bit) SP1 	<ul style="list-style-type: none"> Windows 10 IoT Enterprise (64 bit) Windows 7 Professional (64 bit) SP1 WES 7 (64 bit) SP1 	<ul style="list-style-type: none"> Windows 10 IoT Enterprise (64 bit) Windows 7 Professional (64 bit) SP1
Weight, approx <ul style="list-style-type: none"> Aluminum bezel Stainless steel bezel Widescreen 	11.1 kg (24.5 lb) 12.8 kg (28.2 lb) —	11.1 kg (24.5 lb) — —	13.2 kg (29.1 lb) 14.5 kg (32 lb) —	13.2 kg (29.1 lb) — 13 kg (28.7 lb)
Dimensions, approx	See Table 14 on page 15			
Cutout dimensions				
Mount options	Panel			

(1) Maximum memory shipped with computers is 8 GB. 16 GB is available through a kit (catalog number 6189V-16GSODDR3), which is sold separately.

(2) Available through a kit (catalog number 6189V-6181SSD64GB), which is sold separately.

(3) Available one-slot riser kit (catalog number 6189V-PCIR) supports 1 PCI, and two-slot kit (catalog number 6189V-EXTPCI2) supports 2 PCI, 2 PCIe x4, or 1 PCIe x4 plus 1 PCI, all which are half-length.

(4) Performance models are not sold with an optical disk drive (ODD) but one can be installed. You must order a kit (catalog number 6189V-ODD), which is sold separately.

(5) All display models have four external USB 3.0 ports and one internal USB 3.0 port. Display models with an aluminum bezel have an extra external USB 3.0 port on the bezel (behind the front access cover).

(6) 6181P computers do not ship with the Windows XP Professional operating system but Windows XP system images are available. For more information, contact Rockwell Automation Technical Support (see back page).

(7) 32 bit images for the Windows 7 operating system are available from the Rockwell Automation Product Compatibility and Download Center: <https://compatibility.rockwellautomation.com/Pages/home.aspx>.

Figure 3 - 6181P Integrated Display and Non-display Computer Dimensions

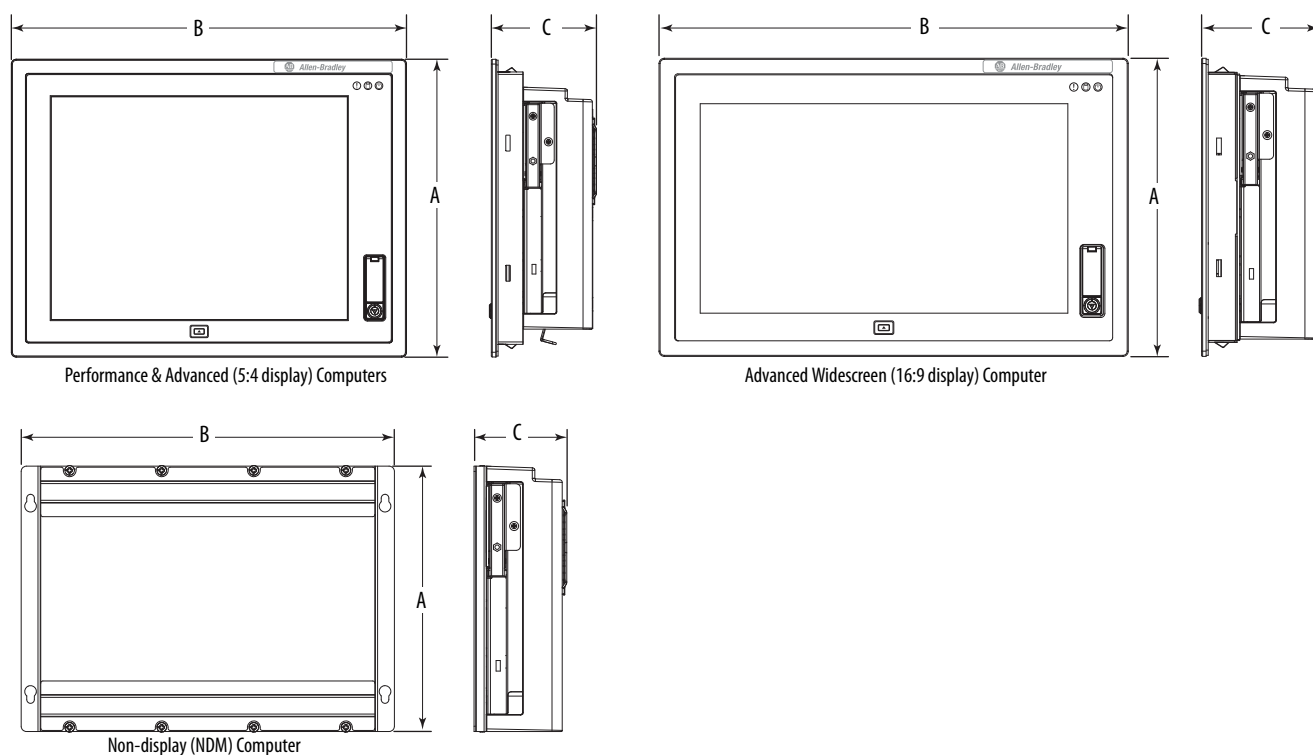


Table 14 - Computer and Cutout Dimensions

All dimensions are in mm (in.)					
6181P Integrated Display and Non-display Computers	Overall Height A	Overall Width B	Overall Depth C	Cutout Height	Cutout Width
Non-display (NDM)					
Performance	251 (9.88)	353 (13.9)	83.4 (3.28)	—	—
Advanced			87.7 (3.45)		
1200P					
Performance (aluminum bezel)	279 (10.98)	349 (13.74)	104.8 (4.13)	254 (10)	324 (12.76)
1500P					
Performance (aluminum bezel)	309 (12.16)	410 (16.14)	104.8 (4.13)	285.6 (11.24)	386.6 (15.22)
Performance (stainless steel bezel)			104.1 (4.1)		
Advanced (standard 4:3 display)			104.8 (4.13)		
Advanced (widescreen 16:9 display)	284 (11.18)	447 (17.6)	108.1 (4.26)	260.2 (10.24)	420 (16.54)
1700P					
Performance (aluminum bezel)	356 (14.01)	452 (17.80)	104.8 (4.13)	329.5 (12.97)	424 (16.69)
Performance (stainless steel bezel)			104.1 (4.10)		
Advanced (standard 5:4 display)			104.8 (4.13)		
1900P					
Performance (aluminum bezel)	399.3 (15.72)	482.6 (19)	108.1 (3.94)	363.5 (14.31)	449.6 (17.7)
Performance (stainless steel bezel)					
Advanced (standard 5:4 display)					
Advanced (widescreen 16:9 display)	339.3 (13.36)	515.6 (20.3)		321 (12.64)	493 (19.41)

NOTE: All Advanced integrated display computer models are available only with aluminum bezels.

6181X Integrated Display and Non-display Computers for Hazardous Locations

With North American, ATEX, and IECEx hazardous location certifications, this extreme environment computer can be safely used globally in areas where explosive materials can be present. The display version of this computer mounts in a panel while the non-display version mounts on a wall. Both computers can withstand temperatures of -20...+70 °C (-4...+158 °F) inside a cabinet or enclosure. The front of the integrated display computer can withstand ambient temperatures in the range -20...+55 °C (-4...+131 °F).

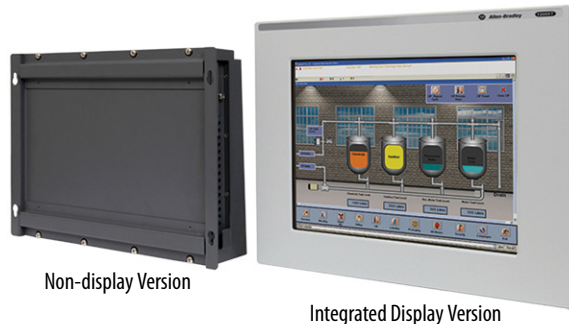


Table 15 - Environmental Specifications, 6181X Hazardous Location Computers

Attribute	1200XT Non-display, 1200XT Display (12 in.)
Temperature, operating 6181X-NPXPDC, non-display 6181X-12TPXPDC, display	-20...+70 °C (-4...+158 °F) -20...+55 °C (-4...+131 °F), display side -20...+70 °C (-4...+158 °F), back side
Temperature, nonoperating	-30...+80 °C (-22...+176 °F)
Relative humidity	10...90% noncondensing
Altitude, operating	2,000 m (6,561 ft)
Altitude, nonoperating	12,000 m (40,000 ft)
Vibration, operating	0.012 in. p-p 10...57 Hz 2 G peak at 57...640 Hz
Shock, operating	15 G (1/2 sine, 11 ms)
Shock, nonoperating	30 G (1/2 sine, 11 ms)
Enclosure ratings (display models)	UL Type 4, 4X and 12 IP66 as classified by UL ⁽¹⁾

(1) When properly mounted on a flat surface of an equivalent type enclosure.

Table 16 - Hazardous Location Ratings by Region

Computer Model	Cat. Nos.	Region	Rating	Temperature Range	
Non-display	6181X-00N2SW71DC, 6181X-00N2SWX1DC	United States	Class I Division 2, Groups A, B, C, D T4	-20 °C ≤ T _a ≤ +70 °C ⁽¹⁾ (-4 °F ≤ T _a ≤ +158 °F)	
			Class I Zone 2, IIC, T4		
		Canada	Class I Division 2, Groups A, B, C, D T4		
			Class I Zone 2, IIC, T4		
Europe (ATEX)	II 3 G, Ex nA IIC T4 Gc, DEMKO 17 ATEX 1851 X				
Global/IECEx	Ex nA IIC T4 Gc, IECEx UL 17.0024 X				
Display (12 in.)	6181X-12A2SW71DC, 6181X-12A2SWX1DC	United States	Class I Division 2, Groups A, B, C, D T4	-20 °C ≤ T _a ≤ +55 °C (-4 °F ≤ T _a ≤ +131 °F) (display side)	
			Class I Zone 2, IIC, T4		
		Canada	Class I Division 2, Groups A, B, C, D T4		-20 °C < T _a < +70 °C (-4 °F < T _a < +158 °F) (backside) ⁽¹⁾
			Class I Zone 2, IIC, T4		
Europe (ATEX)	II 3 GD, Ex nA nC IIC T4 Gc IP66, Ex tc IIIC T135 °C Dc IP66, DEMKO 17 ATEX 1851 X				
Global/IECEx	Ex nA nC IIC T4 Gc IP66, Ex tc IIIC T135 °C Dc IP66, IECEx UL 17.0024 X				

(1) The entire non-display computer and the backside of the integrated display computer are required to be mounted in a restricted access location.

Table 17 - Certifications, 6181X Hazardous Location Computers

For the most current information, visit the Rockwell Automation Product Certifications website at <http://www.rockwellautomation.com/global/certification/overview.page?>

Attribute ⁽¹⁾	1200XT Non-display, 1200XT Display																																																																					
c-UL-us	UL/c-UL Listed as Information Technology Equipment for use in Hazardous Locations per standards ANSI/ISA 12.12.01, CSA C22.2 No. 213 Enclosure Type ratings per UL50 and CSA C22.2 No. 94.2 Enclosure ingress protection Classified by UL per IEC 60529. For more details, see 6181X-CT007 .																																																																					
IECEX	IEC60079-0 IEC60079-15 IEC60079-31 IECEX UL 17.0024X. For more details, see 6181X-CT011 .																																																																					
ATEX	EN60079-0 EN60079-15 EN60079-31 DEMKO 17 ATEX 1851X. For more details, see 6181X-CT012 .																																																																					
CE	EMC 2014/30/EU. For more details, see 6181X-CT010 . • Immunity standards: EN55024 • Emission standards: EN55032 Class A ATEX 2014/34/EU Waste Electrical and Electronic Equipment (WEEE) 2012/19/EU Metric Directive 80/181-EC EU Battery Directive 2006/66/EC																																																																					
FCC	Class A emissions																																																																					
KC	Registration of Broadcasting and Communications Equipment. For more details, see 6181X-CT009 .																																																																					
RoHS	<p>European RoHS 2011/65/EU. For more details, see 6181X-CT010. China RoHS:</p> <table border="1"> <thead> <tr> <th rowspan="2">部件名称 Part Name</th> <th colspan="6">有毒有害物质或元素 Toxic or Hazardous Substances and Elements</th> </tr> <tr> <th>铅 Lead (Pb)</th> <th>汞 Mercury (Hg)</th> <th>镉 Cadmium (Cd)</th> <th>六价铬 Hexavalent Chromium (Cr(VI))</th> <th>多溴联苯 Polybrominated Biphenyls (PBB)</th> <th>多溴二苯醚 Polybrominated Diphenyl Ethers (PBDE)</th> </tr> </thead> <tbody> <tr> <td>壳体 Housing</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>显示 Display</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>印刷电路板 Printed Circuit Board</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>金属螺帽 Metal Fasteners</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>电缆组装 Cable Assembly</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>风扇组装 Fan Assembly</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>电力供应组装 Power Supply Assemblies</td> <td>X</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>电池 Battery</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>本表格依据SJ/T11364 的规定编制。 This table is made per guidance of SJ/T 11364.</p> <p>0: 表示该有害物质在该部件所有均质材料中的含量均在GB/T26572 规定的限量要求以下。 0: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for the part is below the limit requirement in GB/T 26572.</p> <p>X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T26572 规定的限量要求。 求。(企业可在此处,根据实际情况对上表中打“×”的技术原因进行进一步说明。) X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials for the part is below the limit requirement in GB/T 26572.</p> <p>Turkey RoHS (EEE Yönetmeliğine Uygundur. In Conformity with the EEE Regulation)</p>	部件名称 Part Name	有毒有害物质或元素 Toxic or Hazardous Substances and Elements						铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr(VI))	多溴联苯 Polybrominated Biphenyls (PBB)	多溴二苯醚 Polybrominated Diphenyl Ethers (PBDE)	壳体 Housing	X	0	0	0	0	0	显示 Display	X	0	0	0	0	0	印刷电路板 Printed Circuit Board	X	0	0	0	0	0	金属螺帽 Metal Fasteners	X	0	0	0	0	0	电缆组装 Cable Assembly	X	0	0	0	0	0	风扇组装 Fan Assembly	X	0	0	0	0	0	电力供应组装 Power Supply Assemblies	X	0	0	0	0	0	电池 Battery	0	0	0	0	0	0
部件名称 Part Name	有毒有害物质或元素 Toxic or Hazardous Substances and Elements																																																																					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr(VI))	多溴联苯 Polybrominated Biphenyls (PBB)	多溴二苯醚 Polybrominated Diphenyl Ethers (PBDE)																																																																
壳体 Housing	X	0	0	0	0	0																																																																
显示 Display	X	0	0	0	0	0																																																																
印刷电路板 Printed Circuit Board	X	0	0	0	0	0																																																																
金属螺帽 Metal Fasteners	X	0	0	0	0	0																																																																
电缆组装 Cable Assembly	X	0	0	0	0	0																																																																
风扇组装 Fan Assembly	X	0	0	0	0	0																																																																
电力供应组装 Power Supply Assemblies	X	0	0	0	0	0																																																																
电池 Battery	0	0	0	0	0	0																																																																
RCM (formerly C-Tick)	Australian Radiocommunications Act, compliance with EN 55032. For more details, see 6181X-CT008 .																																																																					

(1) See <http://www.rockwellautomation.com/rockwellautomation/certification/overview.page> for declarations of conformity, certificates, and other certification details.

Table 18 - Power Specifications, 6181X Hazardous Location Computers

Attribute	6181X Non-display Models	6181X Display Models
Input voltage	18...32V DC	
Power consumption, DC (max)	18...32V DC (SELV), 2.46...1.34 A, 45 W	18...32V DC (SELV), 3.28...1.79 A, 60 W
Heat dissipation ⁽¹⁾	45 W (154 BTU/h)	60 W (205 BTU/h)
Ratings, max USB ports, per port PCIe slot	900 mA, 10 W max for all ports (2 A) 4 W	

(1) Add-in cards and peripherals are included in the heat dissipation value.

Table 19 - Technical Specifications, 6181X Hazardous Location Computers

Attribute	1200XT Non-display	1200XT Integrated Display
Display type	No display	Active matrix color TFT
Touch screen	—	Resistive, sunlight readable film
Display size, diagonal		308 mm (12.1 in.)
Display area (WxH)		246 x 185 mm (9.7 x 7.3 in.)
Native resolution		1024 x 768, 16.2M colors
Luminance		700 cd/m ² (Nits)
Contrast ratio, typical		800:1
View angle, typical		160°
LED backlight lifetime		100,000 hours max at 25 °C (77 °F)
Bezel		Aluminum
Processor	Intel Core i3-5010U, 2.1 GHz	
RAM	8 GB DDR3 installed (16 GB max)	
Solid-state drive • Installed • Max	MLC drive on computer side, 128 GB ⁽¹⁾ • 128 GB • 256 GB	
Expansion slots	1 half-length PCIe x1	
CompactFlash Type II slot	1 bootable data drive slot (shipped empty)	
I/O connections	<ul style="list-style-type: none"> • 2 serial RS-232 COM ports • 4 USB 2.0 ports, hot-swappable • 2 Ethernet LAN ports, 1 Gb each • 2 video ports: 1 DVI-I and 1 DisplayPort 	
Available operating systems	<ul style="list-style-type: none"> • Windows 10 IoT Enterprise (64 bit) • Windows 7 Professional (64 bit), Service Pack 1 	
Weight, approx	6.1 kg (13.45 lb)	8.4 kg (18.52 lb)
Dimensions, approx	See Table 20 on page 19	
Cutout dimensions		
Mount options	Wall	Panel

(1) 256 GB hard disk drive accessory available, cat. no. 6189X-256GBSSD.

Figure 4 - 6181X Hazardous Location Computer Dimensions

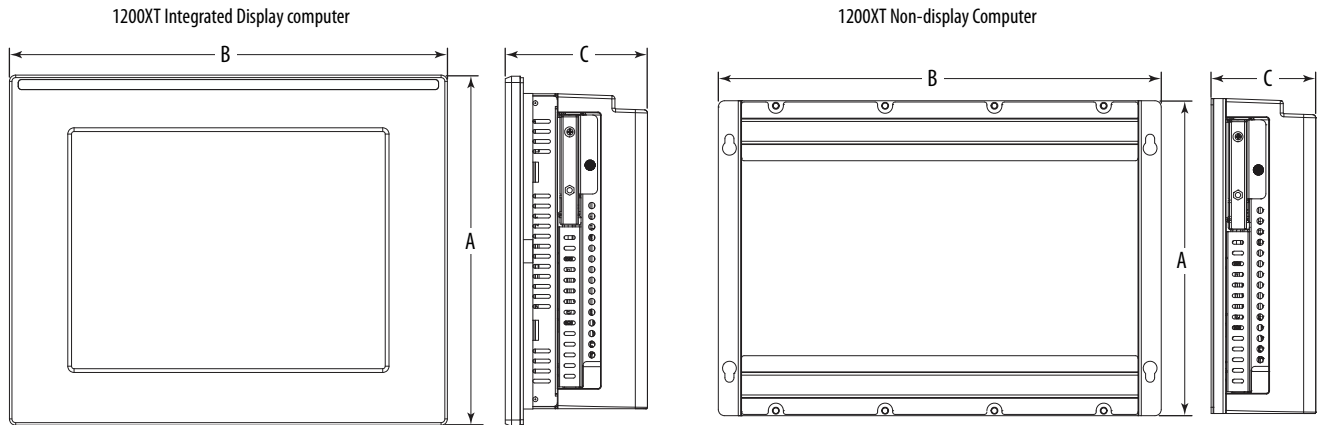


Table 20 - Computer and Cutout Dimensions

6181X Hazardous Location Computer	All dimensions are in mm (in.)				
	Overall Height A	Overall Width B	Overall Depth C	Cutout Height	Cutout Width
1200XT display	279 (10.98)	349 (13.74)	101.2 (3.98)	254 (10)	324 (12.76)
1200XT non-display	190 (7.5)	335 (13.20)	83.4 (3.28)	—	—

6177R Non-display Computers

The 6177R non-display computers take advantage of the Intel second-generation core processors to provide powerful platforms that are suited with excellent reliability for industrial environments. These computers are available in rugged machine-mount and rack-mount form factors and offer powerful remote management, onboard backup/restore, and integrated diagnostic capabilities.



Table 21 - Environmental Specifications, 6177R Non-display Computers

Attribute	750R, 1450R	
Temperature, operating	0...50 °C (32...122 °F)	
Temperature, nonoperating	-20...+60 °C (-4...+140 °F)	
Relative humidity	10...90% noncondensing	
Vibration, operating	0.006 in. p-p 10...57 Hz, 1 G peak at 57...640 Hz	
Vibration, nonoperating	0.012 in. p-p 10...57 Hz, 2 G peak at 57...640 Hz	
Shock, operating	15 G (1/2 sine, 11 ms)	
Shock, nonoperating	30 G (1/2 sine, 11 ms)	
Acoustic noise, idle	750R	44.3 dB at 50 cm
	1450R	46.6 dB at 50 cm
Acoustic noise, max	750R	63.4 dB at 50 cm
	1450R	64.4 dB at 50 cm

